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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/786,407	02/25/2004	Rudolf Mikl	21334-1309	3993	
29450 7.	590 01/06/2005		EXAMINER		
BARLEY SNYDER, LLC 1000 WESTLAKES DRIVE, SUITE 275			DONOVAN, LINCOLN D		
BERWYN, PA			ART UNIT	PAPER NUMBER	
22, 11	,		2832		
			DATE MAILED: 01/06/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

				AL			
		Application No.	Applicant(s)				
		10/786,407	MIKL ET AL.				
Office Action Summary		Examiner	Art Unit				
		Lincoln Donovan	2832				
Period fo	 The MAILING DATE of this communication apports 	pears on the cover sheet v	vith the correspondence ad	dress			
THE - External control	MAILING DATE OF THIS COMMUNICATION. In Six (6) MONTHS from the mailing date of this communication. In Period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period out to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thi vill apply and will expire SIX (6) MO , cause the application to become A	reply be timely filed irty (30) days will be considered timely NTHS from the mailing date of this co NBANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	_·					
2a) <u></u>	This action is FINAL . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits i						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)🖂	☑ Claim(s) <u>1-14</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5)□	Claim(s) is/are allowed.						
-	Claim(s) <u>1-14</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	r election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.					
10)🛛	The drawing(s) filed on 25 February 2004 is/are	e: a)⊠ accepted or b)⊡	objected to by the Examir	ner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ion is required if the drawing	g(s) is objected to. See 37 CF	R 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attache	ed Office Action or form PT	O-152.			
Priority (under 35 U.S.C. § 119		;				
•	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority documents		§ 119(a)-(d) or (f).				
	2. Certified copies of the priority documents	s have been received in A	Application No				
	3. Copies of the certified copies of the prior	•	n received in this National	Stage			
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* (See the attached detailed Office action for a list	of the certified copies no	t received.				
Attachmen	ut(s)						
	ce of References Cited (PTO-892)	. 4) Interview	Summary (PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	•			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>02-25-04</u> .	5) Notice of 6) Other:	Informal Patent Application (PTC)-152)			
. upc		<u> </u>	 ·				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, lines 5-9, the particular structure and arrangement of the "transition region" is unclear. Applicant should clarify whether the "transition" between the yoke and core and the specific cross-sectional area intended. It is assumed that applicant intends the "transition region" to be the core element 19, depicted in figures 4-6 and the cross-sectional area to be only the area of the "transition region" piece.

Regarding claims 5-6, applicant should clarify the specific structure intended by "designed to be" and "designed so as."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Shibata et al. [US 5,945,900].

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Art Unit: 2832

Regarding claims 1-2, 4 and 10-14 Shibata et al. disclose a relay [figure 1] comprising:

- a coil bobbin [figure 1];

- a yoke [25]; and

- a core formed of at least two core elements [24, figure 1] penetrating the coil bobbin and integrally formed with the yoke, the core having a transition region with the yoke with a cross-sectional area and a central region surrounded by the coil bobbin with a cross-sectional area, the cross-sectional area in the transition region at an end pole face being greater than the cross-sectional area in the central region of the core [figure 1].

Regarding claims 5-9, Shibata et al. discloses the core being formed of two core elements [24, figure 1] each designed so as to be substantially without an under cut and with at least one core element [24] having a non-uniform cross-sectional area designed to be insertable into the coil bobbin and the other core element being integrally formed with the yoke and substantially uniform and rectangular in cross-section.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shibata et al. in view of Martino [US 5,084,688].

Art Unit: 2832

Shibata et al. disclose everything claimed except the core being tapered in a region surrounded by the coil bobbin.

Martino discloses a relay [1] having a core [5] with a tapered portion in a region surrounded by the a coil bobbin [figure 1].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to taper a region of the core of Shibata et al., as suggested by Martino, for the purpose of optimizing magnetic efficiency.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is 571-272-1988. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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